

Notice of Allowability

Application No.

10/750,715

Applicant(s)

NEWBURN ET AL.

Examiner

Hashem Farrokh

Art Unit

2187

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 12/20/07.
2. ☒ The allowed claim(s) is/are 1,3,5-7,9-10,12-18,20-22,24-34,36-38,40-41,43 Renumbered 1-33.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date <u>12/20/07</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under Ex Parte Quayle, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 12/20/07 has been entered.

The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

The 20 page document filed on 12/20/07 is just a collection of Documents and/or Exhibits and lacks the form PTO-1449 or equivalent. However, the U.S. Patent No. 6,640,283 B2 cited in the Chinese Office Action has been considered by the Examiner as is indicated in the attached form PTO-892.

Examiner Amendment

The Examiner initiated a telephone interview with the Applicant's Representative (Mr. Thomas Webster 46,154) on 12/26/07. The Examiner informed the Applicants that the newly amended dependent claim 12 does not show any claim dependency. The

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Applicant's Representative authorized the Examiner to make an examiner amendment to indicate that the dependent claim 12 now depends from claim 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Claim 12:

Line 1, after "[[11]]" insert -- 1--

PART I DISTINGUISHING FEATURES RECITED IN THE CLAIMS

The following is an Examiner's Statement of Reasons for Allowance See

MPEP 1302.14

1. The primary reasons for allowance of independent claims 1,3, 5-7, 9-10, 12, 33-34, 36-38, 40-41, and 43 in the instant application is the combination with the inclusion of the following limitations: the memory controller comprising a compression map cache to store information that identifies a compressed cache line's worth of information stored in the memory, the compressed cache line' s worth of information comprising a compressed version of a first cache line's worth of information and a compressed version of a second cache line' s worth of information, said memory controller

including storage space to identify physical continuous addressing space of the program addressable memory in which a compression map is stored.

2. *The primary reasons for allowance of independent claims 17-18, 20-22, 24-27, and 29-32 in the instant application is the combination of the following limitations: **the memory controller comprising a compression map cache to store information that identifies a compressed cache line's worth of information stored in the memory, the compressed cache line's worth of information comprising a compressed version of a first cache line's worth of information and a compressed version of a second cache line's worth of information, the memory controller including a scheduler to schedule requests made to the memory controller, the scheduler coupled to the compression map cache to refer to the information so that it can be understood whether a request's corresponding cache line's worth of information is stored in the program addressable memory in a compressed state.***

The prior art of record including the IDS filed on 12/20/27 does not teach or suggest the combination of claims limitations indicated in the allowable subject matter.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays should be clearly labeled "Comments on Statement of Reasons for Allowance"

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PART II **THE ATTENTION OF FUTURE CORRESPONDENT**

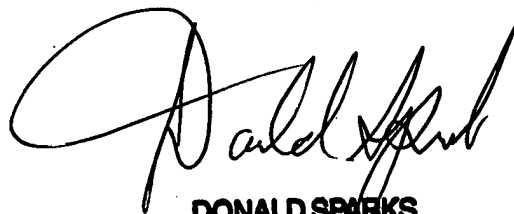
*Any inquiry concerning this communication should be directed to Hashem Farrokh whose telephone number is (571) 272-4193. The examiner can normally be reached Monday-Friday from **8:00 AM to 5:00 PM**.*

If attempt to reach the above noted Examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Donald A Sparks, can be reached on (571) 272-4201. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either private PAIR or Public PAIR. Status information for unpublished application is available through Private PAIR only. For more information about PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBS) at 866-217-9197 (toll-free).

HF

HF

2007-12-24



DONALD SPARKS
SUPERVISORY PATENT EXAMINER